

## IN THE CLAIMS

- [c1] 1. (Currently Amended) An apparatus for conditioning digital image data for display of the image represented thereby, the apparatus comprising:
- a store for storing digital image data defining a multiplicity of pixels which together form an image, wherein said image having a first region and a second region;
- a format data table defining a set of parameters for each of a plurality of different image displaying formats, said set parameters comprising a first parameter for an area of pixel region for said first region and a second parameter for an area of pixel for said second region; and
- an image data processor for reading the digital image data from the store, for formatting the image data depending on the set of parameters for a selected image display format, and for outputting the formatted image data for display of the image represented thereby in the selected image display format.
- [c2] 2. (Currently Amended) An apparatus as claimed in claim 1, wherein the store is arranged to store digital image data for a plurality of image frames which together form at least a portion of ~~[[the]]~~ [[a]] moving image.
- [c3] 3. (Original) An apparatus as claimed in claim 2, wherein the format data table includes a set of parameters corresponding to a progressive scan format, and the store is arranged to output the frames of data to the processor in display order.
- [c4] 4. (Original) The apparatus as claimed in claim 3, wherein the image data processor is capable of outputting the formatted image data in a format different than the format in which the digital image data is stored.
- [c5] 5. (Original) An apparatus as claimed in claim 2, wherein the format data table includes a set of parameters corresponding to an interleaved scan format and the store is arranged to output the frames of data to the processor in an interleaved field order.

- [c6]           6.       (Original) An apparatus as claimed in claim 1, wherein the store is arranged to store digital image data defining a static image and the store is arranged to output the frames of data to the processor for continuous display of the static image over a period of time.
- [c7]           7.       (Original) An apparatus as claimed in claim 1, wherein the format data table is generated by software, thereby enabling the parameters to be added to, changed and updated as necessary.
- [c8]           8.       (Original) An apparatus as claimed in claim 1, wherein the image data processor comprises a video formatting state machine.
- [c9]           9.       (Original) An apparatus as claimed in claim 8, wherein the state machine includes a state in which control signals corresponding to blanking intervals are generated.
- [c10]          10.      (Original) An apparatus as claimed in claim 9, wherein the blanking intervals correspond to horizontal blanking intervals.
- [c11]          11.      (Original) An apparatus as claimed in claim 9, wherein the blanking intervals correspond to vertical blanking intervals.
- [c12]          12.      (Original) An apparatus as claimed in claim 8, wherein the state machine includes a state in which blanking pixels are generated.
- [c13]          13.      (Currently Amended) An apparatus as claimed in claim [[8]], further comprising a buffer between the store and the state machine.
- [c14]          14.      (Original) An apparatus as claimed in claim 13, wherein the buffer comprises a first-in-first-out register.
- [c15]          15.      (Original) An apparatus as claimed in claim 1, further comprising a projector for displaying the image represented by the formatted image data.

[c16] 16. (Currently Amended) A method of conditioning digital image data for display of the image represented thereby, the method comprising:

storing digital image data defining a multiplicity of pixels which together form an image having a first region and a second region;

defining a set of parameters for each of a plurality of different image displaying formats, wherein said set of parameters defining a first parameter for an area of pixel region for said first region and a second parameter for an area of pixel for said second region;

formatting the image data depending on the set of parameters for a selected image display format; and

outputting the formatted image data for display of the image represented thereby in the selected image display format.

[c17] 17. (Currently Amended) A method as claimed in claim 16, further comprising storing digital image data for a plurality of image frames which together form at least a portion of ~~[[the]]~~ [[a]] moving image.

[c18] 18. (Original) A method as claimed in claim 17, wherein the set of parameters includes a set of parameters corresponding to a progressive scan format, and the method further comprises supplying the frames of data for formatting in display order.

[c19] 19. (Previously Amended) A method as claimed in claim 18, wherein outputting the formatted image data for display is in a format different than the format in which the digital image data is displayed.

[c20] 20. (Original) A method as claimed in claim 17, wherein the set of parameters includes a set of parameters corresponding to an interleaved scan format and the method further comprises supplying data for each frame for formatting in an interleaved field order.

[c21] 21. (Original) A method as claimed in claim 16, further comprising storing digital image data defining a static image; and supplying repeatedly the image data for formatting for continuous display of the static image over a period of time.

[c22] 22. (Original) A method as claimed in claim 16, wherein the set of parameters is generated by software, thereby enabling the parameters to be added to, changed and updated as necessary.

[c23] 23. (Original) A method as claimed in claim 16, further comprising displaying the image represented by the formatted image data.

[c24] 24. (Currently Amended) An image data processing system comprising:  
an input device for receiving image data defining a multiplicity of pixels that together form an image having a first region and a second region;  
a programmable format data store for storing format data defining a format in which the image data is to be output for display of the image, wherein said format data defining a first parameter for an area of pixel region for said first region and a second parameter for an area of pixel for said second region; and  
a processor for receiving the image data from the input device and processing the same depending on the format data in the programmable format data store to generate image data including control data corresponding to the format defined by the format data in the format data store.

[c25] 25. (Original) An image data processing system as claimed in claim 24, wherein the input device comprises a buffer.

[c26] 26. (Original) An image data processing system as claimed in claim 25, wherein the buffer comprises a first-in-first-out register.

[c27] 27. (Original) An image data processing system as claimed in claim 25, wherein the input device is adapted to receive the image data in a decimated format.

[c28] 28. (Original) An image data processing system as claimed in claim 27, wherein the input device comprises separate parallel sections for receiving respective components of the decimated image data.

[c29] 29. (Original) An image data processing system as claimed in claim 24, wherein the processor comprises a video formatting state machine.

[c30] 30. (Previously Amended) An image data processing system as claimed in claim 29, wherein the state machine includes a state in which control signals corresponding to blanking intervals are generated.

[c31] 31. (Previously Amended) An image data processing system as claimed in claim 30, wherein the blanking intervals correspond to horizontal blanking intervals.

[c32] 32. (Previously Amended) An image data processing system as claimed in claim 30, wherein the blanking intervals correspond to vertical blanking intervals.

[c33] 33. (Previously Amended) An image data processing system as claimed in claim 29, wherein the state machine includes a state in which blanking pixels are generated.

[c34] 34. (Currently Amended) A method of image data processing comprising:  
 receiving image data defining a multiplicity of pixels that together form an image having a first region and a second region;  
 generating format data defining a format in which the image data is to be output for display of the image, wherein said format defining a first parameter for an area of pixel region for said first region and a second parameter for an area of pixel for said second region; and  
 processing the image data from the input device depending on the format data in the programmable format data store to generate image data including control data corresponding to the format defined by the format data in the format data store.

[c35] 35. (Original) A method as claimed in claim 34, further comprising receiving the image data in a decimated format.

[c36] 36. (Original) A method as claimed in claim 35, further comprising receiving respective components of the decimated image data in parallel.

[c37] 37. (Original) A method as claimed in claim 34, further comprising generating control signals corresponding to blanking intervals.

[c38] 38. (Original) A method as claimed in claim 37, wherein the blanking intervals correspond to horizontal blanking intervals.

[c39] 39. (Original) A method as claimed in claim 37, wherein the blanking intervals correspond to vertical blanking intervals.

[c40] 40. (Original) A method as claimed in claim 34, further comprising generating blanking pixels.

[c41] 41. Canceled

[c42] 42. Canceled

[c43] 43. Canceled

[c44] 44. Canceled

[c45] 45. Canceled

[c46] 46. Canceled

[c47] 47. Canceled

[c48] 48. Canceled

[c49] 49. (Previously Amended) A video display system in which data defining an image is supplied as pixel data and is formatted before being output for display, the system comprising:

means for storing the pixel data;

means for reading the pixel data, from the means for storing, in display order;

means for selecting a display format in which the image is to be displayed, said having a first region and a second region; and

processing means, coupled to the means for reading and to ~~[[the]]~~ [[a]] means for defining, for processing the pixel data to create display data by adding control data corresponding to the format selected for display, wherein said control data comprising a first parameter for an area of pixel region for said first region and a second parameter for an area of pixel for said second region.

[c50] 50. (Original) A video display system as claimed in claim 49, further comprising:

means, coupled to the processing means and responsive to the control data in the display data, for displaying the image represented by the display data.

[c51] 51. (Original) A video display system as claimed in claim 49, wherein the means for selecting a display format comprises means for defining the control data to be added to the pixel data by the processing means.

[c52] 52. (Original) A video display system as claimed in claim 49, wherein the means for selecting a display format is programmable.

[c53] 53. (Previously Amended) A video display method in which data defining an image is supplied as pixel data and is formatted before being output for display, the method comprising:

storing the pixel data;

reading the stored pixel data in display order;

selecting a display format in which the image is to be displayed, said image having a first region and a second region; and

processing the pixel data to create display data by adding control data corresponding to the format selected for display, wherein said control data comprising a first parameter for an area of pixel region for said first region and a second parameter for an area of pixel for said second region.

[c54] 54. (Original) A video display method as claimed in claim 53, further comprising displaying the image represented by the display data.

[c55] 55. (Previously Amended) A video display method as claimed in claim 53, wherein the selecting a display format comprises defining the control data to be added to the pixel data in the processing step.